

WSDOT earns award for "Special Achievement in GIS"

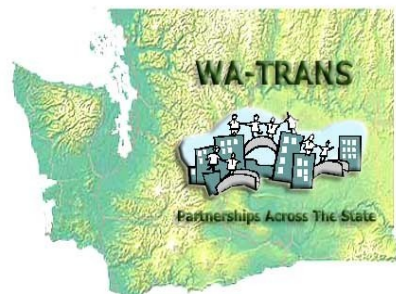
Washington State Department of Transportation (WSDOT) received a Special Achievement in GIS (SAG) Award on July 15, 2009 at the 2009 ESRI International User Conference (ESRI UC) in San Diego, California. WSDOT received this honor for its vision, leadership, and innovative use of GIS technology.

WSDOT was selected from more than 300,000 organizations worldwide and recognized during a SAG awards ceremony for making extraordinary contributions to our global society.



Wa-Trans:

When completed, the Washington Transportation (Wa-Trans) Framework Project will be a sharable statewide GIS based transportation database covering all public roadways. The Wa-Trans Project will contain the best data available from the data providers; from all levels of government and tribal nations.



The Framework will offer the following components

- * Data provider and user portals
- * Data transform and load application
- * QA/QC processes
- * Loading database and change management tools
- * Change detection tools

MARK FINCH

MANAGER - GIS & ROADWAY DATA OFFICE

360-570-2369 OFFICE 360-789-7739 CELL

EMAIL: FINCHM@WSDOT.WA.GOV

STRATEGIC PLANNING DIVISION - WSDOT

ALAN SMITH

GIS BRANCH MANAGER

360-596-8925 OFFICE 360-742-7998 CELL

EMAIL: SMITHA@WSDOT.WA.GOV

STRATEGIC PLANNING DIVISION - WSDOT

LORI BEEBE

ROADWAY DATA BRANCH MANAGER

360-570-2430 OFFICE

EMAIL: BEEBEL@WSDOT.WA.GOV

STRATEGIC PLANNING DIVISION - WSDOT

GIS & ROADWAY DATA OFFICE - 7345 Linderson Way SW, Tumwater, WA 98501 - PO Box 47384, Olympia, WA

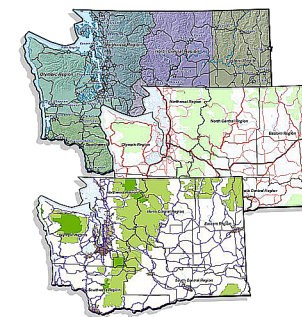


GIS & ROADWAY DATA OFFICE

Fall 2010

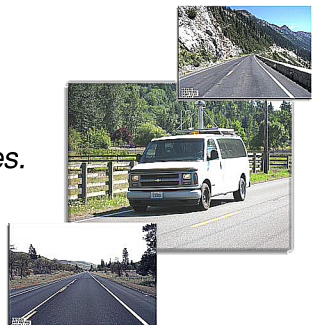
T FUNDED PROGRAMS AND SERVICES

The GIS & Roadway Data Office (GRDO) supports the Geographic Information Systems (GIS) community within WSDOT by providing a full suite of GIS products and services that are used throughout the agency for project planning, budget development, programming, design, construction, maintenance, environmental modeling, emergency response, tort defense and more. The GRDO is essential to the department's overall support in achieving the goals of Safety, Preservation, Mobility, Environment, Stewardship, and Economic Vitality.



GIS is the technology used to collect, store, analyze and map spatial data; to reveal relationships, patterns and trends. Roadway Data is a collection of information about roadway features and their characteristics along Washington State Routes.

WSDOT depends on GIS & Roadway Data to effectively plan, monitor and manage strategic infrastructure investments while determining capacity enhancements and operational improvements for the benefit of the traveling public.



DATA

- Functional Classification
- City Limit Boundaries
- WSDOT Regions
- Railroads
- State Route - LRS (Linear Referencing System)
- State Route Digital Imagery

CARTOGRAPHY

- Tourist Map
- County Map Series
- Traffic Flow Map
- Freight and Goods Map
- Custom Cartography

APPLICATIONS

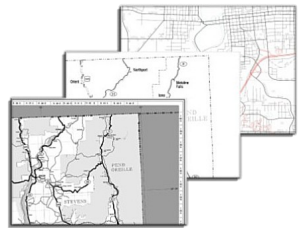
- Winter Operations
- TransMapper
- GIS Workbench
- SR View (State Route Viewer)
- SR Web (State Route Web)

SERVICES

- Training
- Technical Support
- Project Management
- Business Analysis
- Video Logging
- Video Duplication

GIS Data Products

The GIS Data Products Team creates and maintains a number of geospatial data sets used by spatial analysts, application developers and cartographers for maps and GIS applications. Stewardship services of GIS data layers that are used by numerous business areas throughout the agency support WSDOT as well as the public and other local, state and federal agencies.



Products:

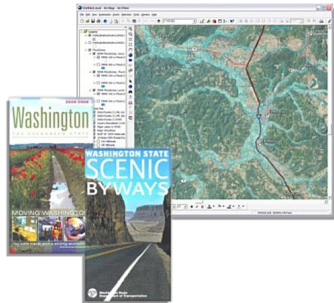
- 24K and 500K LRS
- City Annexations
- Urban Growth Areas
- Functional Classification
- Freight and Goods
- State Route Digital Imagery
- Sight Distance Data
- WSDOT Region Boundaries
- WSDOT Maintenance Areas

Services:

- * Creation of specialized project-based spatial data in support of analysis, applications and cartography
- * Coordination of spatial data activities with other WSDOT business areas and with other state, local and federal agencies
- * Spatial data conversions, transformations and calculation
- * Project-based consulting services in support of creation, use and maintenance of spatial data
- * Generation and maintenance of spatial metadata

Cartography and Custom Mapping

The Cartography Team produces a number of distinctive map products that are used extensively by the public and other state and local government agencies. The cartographic products are published as paper maps, digital documents and reusable map services for use in interactive mapping applications.



Products:

- Tourist Map
- Bicycle Map
- Milepost Map
- Freight and Goods Map
- Functional Class Map
- General Highway Atlas
- General Highway Map

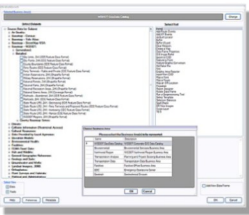
Services:

- * Provides cartographic products for collision analysis, emergency response planning and Emergency Operations Centers in support of public safety
- * Provides support for highway Preservation by providing cartographic products to display and analyze maintenance activities, performance measures and assets
- * Contributes to Mobility by designing and producing cartographic products depicting freight movement and travel demand
- * Many of these cartographic products are used in planning and project scoping activities, reducing field work and supporting collaborative data sharing

Application Development

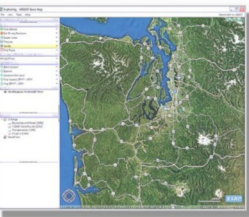
The GIS Application Development Team designs and delivers software applications that make it easier for agency staff to collect, access, display, analyze and present spatial information. Thousands of users, across many business areas, benefit from these applications.

The GIS Workbench



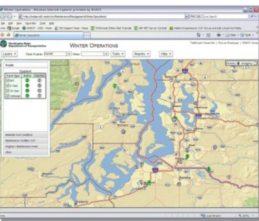
This application is used in conjunction with ArcGIS Desktop to provide WSDOT staff with custom tools and simplified data access to the department's Enterprise GIS databases.

TransMapper



An easy to use mapping application customized for WSDOT, enabling users to explore, visualize, share and perform simple spatial analysis with local and enterprise data.

Winter Operations



An application that provides 'real time' maps of WSDOT truck locations, road conditions, material placement, traffic cameras and weather information.

SRview and SRweb



These applications allow users to view and perform analysis of State Route digital imagery from a desktop, reducing field trips, improving Mobility and promoting Safety.

GIS & Roadway Data Services

The GIS & Roadway Services Team offers a variety of professional services to WSDOT staff, other state agencies and the public. The GIS Services enable customers to meet their strategic objectives through the use of spatial technology.

GIS Project Management:

Provides planning, organizing and resource management to ensure the successful completion of specific project goals and objectives in support of WSDOT's implementation of GIS technology.

GIS and SR View Help Desk:

Provides technical assistance and support to resolve problems and answer questions related to GRDO software applications and commercial software products.

GIS Support Team:

GRDO provides GIS expertise and organizational services to WSDOT's GIS Support Team. The GIS Support Team is a community of GIS users representing key WSDOT business areas. The team supports the mission to develop, enhance, and support GIS activities that facilitate the department's strategic plan and align with various Washington State GIS organizations.

Video & Digital Imagery Duplication Services:

Responsible for the archival, retrieval, and distribution of current and historical digital videos and still imagery of the State Route system and related roadside assets which are indexed by state route measure. Copies of digital video and still imagery are often requested and used by the Attorney General's office for defense against tort liability. Also provides archival, retrieval, and distribution of critical interior culvert inspection videos allowing WSDOT to proactively safeguard against costly culvert failures.

Training:

Provides training to GIS & Roadway Data software applications, commercially available GIS products and data products -

- | | |
|--------------------|---------------------|
| * ArcGIS Desktop | * Roadway Data Mart |
| * SRview and SRweb | * TransMapper |
| * ARMCalc | * GIS Workbench |
| * LRS | |